IN THE CLAIMS

Please amend the claims to read as follows:

Listing of Claims

Claims 1-41 (Canceled).

42. (New) A data transmission method in a mobile communication system comprising the steps of:

establishing a radio bearer between a mobile terminal and a radio access network,

receiving, from the radio access network, information including a priority assigned to a logical channel that is mapped on a transport channel and indicating a scheduling mode out of plural scheduling modes of the logical channel,

mapping the radio bearer to the logical channel based on the received information, and

transmitting the data via the transport channel.

43. (New) The data transmission method according to claim 42, further comprising selecting a transport format combination to be used for transmitting data based on at least the priority assigned to the logical channel.

44. (New) The data transmission method according to claim 43, further comprising setting a flag according to the indicated scheduling mode of the logical channel, and

wherein the transport format combination is selected based on the flag and the priority assigned to the logical channel.

45. (New) The data transmission method according to claim 43, wherein the data is transmitted using the selected transport format combination.

46. (New) The data transmission method according to claim 42, further comprising multiplexing the data to the transport channel based on a flag set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

47. (New) The data transmission method according to claim 42, further comprising receiving signaling information from the radio access network indicating the scheduling mode of the radio bearer.

48. (New) The data transmission method according to claim 42, wherein a flag set according to the indicated scheduling mode

indicates whether to prioritize the transmission of the data on the logical channel.

49. (New) The data transmission method according to claim 42, wherein the data is transmitted on an enhanced dedicated uplink channel.

50. The data transmission method according to claim 42, wherein the radio bearer is mapped on at least two logical channels each being assigned a priority.

51. (New) The data transmission method according to claim 42, wherein the scheduling mode is either a time and rate controlled scheduling mode or a rate controlled scheduling mode.

52. (New) The mobile terminal according to claim 42, further comprising setting at the mobile terminal a flag according to the indicated scheduling mode of the logical channel.

53. (New) A mobile terminal for use in a mobile communication system, the mobile terminal comprising:

a processing unit operable to establish a radio bearer between the mobile terminal and a radio access network,

a receiving unit operable to receive, from the radio access network, information including a priority assigned to a logical channel that is mapped on a transport channel and indicating a scheduling mode out of plural scheduling modes of the logical channel,

a mapping unit operable to map the radio bearer to the logical channel based on the received information, and

a transmitting unit operable to transmit the data via the transport channel.

54. (New) The mobile terminal according to claim 53, further comprising a selecting unit operable to select a transport format combination to be used for transmitting data based on at least the priority.

55. The mobile terminal according to claim 54, wherein the selecting unit is operable to select the transport format combination based on a flag being set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

56. (New) The mobile terminal according to claim 54, wherein the transmitting unit is operable to transmit the data using the selected transport format combination.

57. (New) The mobile terminal according to claim 53, wherein the transmitting unit is operable to multiplex the data to the transport channel based on a flag set according to the indicated scheduling mode of the logical channel and the priority assigned to the logical channel.

58. (New) The mobile terminal according to claim 53, wherein the receiving unit is operable to receive signaling information from the radio access network indicating the scheduling mode of the radio bearer.

59. (New) The mobile terminal according to claim 53, wherein a flag set according to the indicated scheduling mode indicates whether to prioritize the transmitting of the data on the logical channel.

60. (New) The mobile terminal according to claim 53, wherein the transmitting unit is operable to transmit the data on an enhanced dedicated uplink channel.

61. (New) The mobile terminal according to claim 53, wherein the radio bearer is mapped on at least two logical channels each being assigned a priority.

62. (New) The mobile terminal according to claim 53, wherein the scheduling mode is either a time and rate controlled scheduling mode or a rate controlled scheduling mode.

63. (New) A computer readable medium storing instructions that, when executed by a processor of a mobile terminal, cause the mobile terminal to perform data transmissions, by:

establishing a radio bearer between a mobile terminal and a radio access network,

receiving, from the radio access network, information including a priority assigned to a logical channel that is mapped on a transport channel and indicating a scheduling mode out of plural scheduling modes of the logical channel,

mapping the radio bearer to the logical channel based on the received information, and

transmitting the data via the transport channel.

64. (New) The data transmission method according to claim 44, wherein the data is transmitted using the selected transport format combination.

65. (New) The mobile terminal according to claim 55, wherein the transmitting unit is operable to transmit the data using the selected transport format combination.